

M M Abid Naziri

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About Me

My research focuses on testing software, specifically learning-enabled systems. My current projects include testing deep learning libraries such as **PyTorch** and **TensorFlow** and simulation-based test generation for **Autonomous Driving Systems**.

Education

NC State University, PhD in Computer Science (4th year) May 2027 (Expected)

Advisor: Dr. Marcelo d'Amorim

Award: Graduate Merit Award - Summer 2025

Publications

BugsInDLLs : A Database of Reproducible Bugs in Deep Learning Libraries to Enable Systematic Evaluation of Testing Techniques ISSTA 2025

M M Abid Naziri, Aman Kumar Singh, Benjamin Wu, Feiran (Alex) Qin, Saikat Dutta, Marcelo d'Amorim
The ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2025)

Tool Demonstration Track

Evaluating the Effectiveness of Neurosymbolic Constraint Learning for Testing Deep Learning Library APIs Submitted

M M Abid Naziri, Shinhae Kim, Feiran Qin, Saikat Dutta, Marcelo d'Amorim

Submitted

Testing Autonomous Driving Systems with Focused Misbehavior Forecasting Submitted

M M Abid Naziri, Stefano Carlo Lambertenghi, Andrea Stocco, Marcelo d'Amorim

Submitted

Evaluating the Effectiveness of Coverage-Guided Fuzzing for Testing Deep Learning Library APIs Submitted

Feiran Qin, *M M Abid Naziri*, Hengyu Ai, Saikat Dutta, Marcelo d'Amorim

Submitted [preprint]

Experience

Senior Software Engineer, Enosis Solutions – Dhaka, Bangladesh Mar 2019 – Jul 2022

- Developed scalable web applications using Vue JS, TypeScript, and ASP.NET Core, including a project management tool deployed to 270 employees and a Welder Management system
- Developed desktop applications DesignCalcs and ProWrite for pressure vessel design, adding features, fixing bugs, and creating unit/regression tests
- Managed CI/CD pipelines, configured testing servers, and ensured smooth system operations
- Operated in an **Agile** development process in a development team of 7 people
- Mentored new recruits, conducted code/design reviews
- Collaborated with clients and team members via **JIRA**

Technologies

Languages: Python, R, C#, Delphi, Java, C/C++ , JavaScript, TypeScript, Bash

Technologies: PyTorch, TensorFlow, Carla Simulator, ASP.NET Core, React JS, Vue JS, TestComplete, DUnit